

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/528,684
Source: PCT
Date Processed by STIC: 1/31/06

ENTERED



PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/528,684

DATE: 01/31/2006
TIME: 16:15:04

Input Set : A:\211010031U3.txt
Output Set: N:\CRF4\01312006\J528684.raw

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4 <110> APPLICANT: Fleckenstein, Annette E.
5      Hanson, Glen R.
7 <120> TITLE OF INVENTION: MODULATING VESICULAR MONOAMINE TRANSPORTER
8      TRAFFICKING AND FUNCTION: A NOVEL APPROACH FOR
9      THE TREATMENT OF PARKINSON'S DISEASE
11 <130> FILE REFERENCE: 21101.0031U3
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/528,684
C--> 13 <141> CURRENT FILING DATE: 2005-03-21
13 <150> PRIOR APPLICATION NUMBER: PCT/US03/29668
14 <151> PRIOR FILING DATE: 2003-09-19
16 <150> PRIOR APPLICATION NUMBER: 60/412,439
17 <151> PRIOR FILING DATE: 2002-09-19
19 <160> NUMBER OF SEQ ID NOS: 18
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 515
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
30      synthetic construct
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35 His Ser Arg Lys Leu Ile Leu Phe Ile Val Phe Leu Ala Leu Leu Leu
36      20          25          30
37 Asp Asn Met Leu Leu Thr Val Val Val Pro Ile Ile Pro Ser Tyr Leu
38      35          40          45
39 Tyr Ser Ile Lys His Glu Lys Asn Ser Thr Glu Ile Gln Thr Thr Arg
40      50          55          60
41 Pro Glu Leu Val Val Ser Thr Ser Glu Ser Ile Phe Ser Tyr Tyr Asn
42      65          70          75          80
43 Asn Ser Thr Val Leu Ile Thr Gly Asn Ala Thr Gly Thr Leu Pro Gly
44      85          90          95
45 Gly Gln Ser His Lys Ala Thr Ser Thr Gln His Thr Val Ala Asn Thr
46      100         105         110
47 Thr Val Pro Ser Asp Cys Pro Ser Glu Asp Arg Asp Leu Leu Asn Glu
48      115         120         125
49 Asn Val Gln Val Gly Leu Leu Phe Ala Ser Lys Ala Thr Val Gln Leu
50      130         135         140
51 Leu Thr Asn Pro Phe Ile Gly Leu Leu Thr Asn Arg Ile Gly Tyr Pro
52      145         150         155         160
53 Ile Pro Met Phe Ala Gly Phe Cys Ile Met Phe Ile Ser Thr Val Met

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54           165           170           175
55 Phe Ala Phe Ser Ser Ser Tyr Ala Phe Leu Leu Ile Ala Arg Ser Leu
56           180           185           190
57 Gln Gly Ile Gly Ser Ser Cys Ser Ser Val Ala Gly Met Gly Met Leu
58           195           200           205
59 Ala Ser Val Tyr Thr Asp Asp Glu Glu Arg Gly Asn Ala Met Gly Ile
60           210           215           220
61 Ala Leu Gly Gly Leu Ala Met Gly Val Leu Val Gly Pro Pro Phe Gly
62 225           230           235           240
63 Ser Val Leu Tyr Glu Phe Val Gly Lys Thr Ala Pro Phe Leu Val Leu
64           245           250           255
65 Ala Ala Leu Val Leu Leu Asp Gly Ala Ile Gln Leu Phe Val Leu Gln
66           260           265           270
67 Pro Ser Arg Val Gln Pro Glu Ser Gln Lys Gly Thr Pro Leu Thr Thr
68           275           280           285
69 Leu Leu Lys Asp Pro Tyr Ile Leu Ile Ala Ala Gly Ser Ile Cys Phe
70           290           295           300
71 Ala Asn Met Gly Ile Ala Met Leu Glu Pro Ala Leu Pro Ile Trp Met
72 305           310           315           320
73 Met Glu Thr Met Cys Ser Arg Lys Trp Gln Leu Gly Val Ala Phe Leu
74           325           330           335
75 Pro Ala Ser Ile Ser Tyr Leu Ile Gly Thr Asn Ile Phe Gly Ile Leu
76           340           345           350
77 Ala His Lys Met Gly Arg Trp Leu Cys Ala Leu Leu Gly Met Val Ile
78           355           360           365
79 Val Gly Ile Ser Ile Leu Cys Ile Pro Phe Ala Lys Asn Ile Tyr Gly
80           370           375           380
81 Leu Ile Ala Pro Asn Phe Gly Val Gly Phe Ala Ile Gly Met Val Asp
82 385           390           395           400
83 Ser Ser Met Met Pro Ile Met Gly Tyr Leu Val Asp Leu Arg His Val
84           405           410           415
85 Ser Val Tyr Gly Ser Val Tyr Ala Ile Ala Asp Val Ala Phe Cys Met
86           420           425           430
87 Gly Tyr Ala Ile Gly Pro Ser Ala Gly Gly Ala Ile Ala Lys Ala Ile
88           435           440           445
89 Gly Phe Pro Trp Leu Met Thr Ile Ile Gly Ile Ile Asp Ile Ala Phe
90           450           455           460
91 Ala Pro Leu Cys Phe Phe Leu Arg Ser Pro Pro Ala Lys Glu Glu Lys
92 465           470           475           480
93 Met Ala Ile Leu Met Asp His Asn Cys Pro Ile Lys Thr Lys Met Tyr
94           485           490           495
95 Thr Gln Asn Asn Val Gln Ser Tyr Pro Ile Gly Asp Asp Glu Glu Ser
96           500           505           510
97 Glu Ser Asp
98           515
100 <210> SEQ ID NO: 2
101 <211> LENGTH: 1548
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence

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Input Set : A:\211010031U3.txt
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105 <220> FEATURE:
 106 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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 109 <400> SEQUENCE: 2
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 111 ctgatcctgt tcacgtgtt ctttgcgtg ctgctggaca acatgctgtt caccgtcg当地 120
 112 gtccccatca tccccagcta tctgtacagc attaagcatg agaaaaactc tacggaaatc当地 180
 113 cagaccacca gaccagagct cgtggcttcc acctccgaaa gcatcttctc ttactataac当地 240
 114 aactctactg ttttgcgttcc cggaaatgcc actgggactc ttccaggagg gcaactcacac当地 300
 115 aaggctacca gcacacagca cactgtggct aacaccactg tcccttc当地 ctgtccc当地 360
 116 gaagacagag accttctgaa tgagaatgtg caagttggc tgctgttgc ctccaaagcc当地 420
 117 actgtccagc tcctcactaa cccattcata ggacttctgaa ccaacagaat tggctatcca当地 480
 118 attccccatgt ttgc当地 ggcttcc catg tttatctcaa cagttatgtt tgcttctcc当地 540
 119 agcagctatg ccttctgtt gatgccagg tcccttc当地 agggttgc ctctgctca当地 600
 120 tccgtggctg ggatgggtat gctggccagc gtgtacacag atgatgagga gagggggaaac当地 660
 121 gccatggca ttgc当地 tggccttggcc atggggactt tagtgggacc ccccttc当地 720
 122 agtgtgtctt atgagttgtt gggaaagaca gctcccttcc tggtgcttagc tgcttggat当地 780
 123 ctcttggatg gggcttattca gctcttgc当地 ctccagccgt cccgagtgaca gccagagat当地 840
 124 cagaagggga cacctctaac gaccttgc当地 aaggatccat acatcctcat cgctgc当地 900
 125 tccatctgtt ttgcaaacat gggatagcc atgctggagc cc当地 ccctgc当地 catctggat当地 960
 126 atggagacca ttttgc当地 aaagtggcag ctggc当地 ctggc当地 ctggc当地 ggc当地 gagc当地 1020
 127 ttttatctca ttgaaaccaa tattttggg atacttgc当地 acaaaatggg aagttggct当地 1080
 128 tttgtcttcc ttggaaatggg aattttggg atcagc当地 attt tatgcatccc cttt当地 1140
 129 aatatctatg gactcatcgc tcccaactt ggagttggat当地 ttgcaattgg gatgggat当地 1200
 130 tcctctatga tgc当地 ctatcat gggcttccctg gttgacctgc ggc当地 atgttgc当地 tttctatgg当地 1260
 131 agtgtttatg ccatttc当地 cttt gttatggct atgctatc当地 tccctctgct当地 1320
 132 ggtggatggccatc tggccactt ctgttttcc cttt当地 ggatggat当地 tggat当地 1380
 133 gatatcgctt ttgcttccact ctgttttcc cttt当地 ggatggat当地 tggat当地 1440
 134 atggctatcc tcatggacca caactgttcc attaaaacaa agatgttcc acatc当地 tc当地 1500
 135 gtccagtc当地 atccatcgatgaa ttttgc当地 gatgttgc当地 1548
 137 <210> SEQ ID NO: 3
 138 <211> LENGTH: 514
 139 <212> TYPE: PRT
 140 <213> ORGANISM: Artificial Sequence
 142 <220> FEATURE:
 143 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
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 146 <400> SEQUENCE: 3
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 148 1 5 10 15
 149 His Ser Arg Lys Leu Ile Leu Phe Ile Val Phe Leu Ala Leu Leu
 150 20 25 30
 151 Asp Asn Met Leu Leu Thr Val Val Pro Ile Ile Pro Ser Tyr Leu
 152 35 40 45
 153 Tyr Ser Ile Lys His Glu Lys Asn Ala Thr Glu Ile Gln Thr Ala Arg
 154 50 55 60
 155 Pro Val His Thr Ala Ser Ile Ser Asp Ser Phe Gln Ser Ile Phe Ser
 156 65 70 75 80
 157 Tyr Tyr Asp Asn Ser Thr Met Val Thr Gly Asn Ala Thr Arg Asp Leu

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158	85	90	95	
159	Thr Leu His Gln Thr Ala Thr Gln His Met Val Thr Asn Ala Ser Ala			
160	100	105	110	
161	Val Pro Ser Asp Cys Pro Ser Glu Asp Lys Asp Leu Leu Asn Glu Asn			
162	115	120	125	
163	Val Gln Val Gly Leu Leu Phe Ala Ser Lys Ala Thr Val Gln Leu Ile			
164	130	135	140	
165	Thr Asn Pro Phe Ile Gly Leu Leu Thr Asn Arg Ile Gly Tyr Pro Ile			
166	145	150	155	160
167	Pro Ile Phe Ala Gly Phe Cys Ile Met Phe Val Ser Thr Ile Met Phe			
168	165	170	175	
169	Ala Phe Ser Ser Tyr Ala Phe Leu Leu Ile Ala Arg Ser Leu Gln			
170	180	185	190	
171	Gly Ile Gly Ser Ser Cys Ser Ser Val Ala Gly Met Gly Met Leu Ala			
172	195	200	205	
173	Ser Val Tyr Thr Asp Asp Glu Glu Arg Gly Asn Val Met Gly Ile Ala			
174	210	215	220	
175	Leu Gly Gly Leu Ala Met Gly Val Leu Val Gly Pro Pro Phe Gly Ser			
176	225	230	235	240
177	Val Leu Tyr Glu Phe Val Gly Lys Thr Ala Pro Phe Leu Val Leu Ala			
178	245	250	255	
179	Ala Leu Val Leu Leu Asp Gly Ala Ile Gln Leu Phe Val Leu Gln Pro			
180	260	265	270	
181	Ser Arg Val Gln Pro Glu Ser Gln Lys Gly Thr Pro Leu Thr Thr Leu			
182	275	280	285	
183	Leu Lys Asp Pro Tyr Ile Leu Ile Ala Ala Gly Ser Ile Cys Phe Ala			
184	290	295	300	
185	Asn Met Gly Ile Ala Met Leu Glu Pro Ala Leu Pro Ile Trp Met Met			
186	305	310	315	320
187	Glu Thr Met Cys Ser Arg Lys Trp Gln Leu Gly Val Ala Phe Leu Pro			
188	325	330	335	
189	Ala Ser Ile Ser Tyr Leu Ile Gly Thr Asn Ile Phe Gly Ile Leu Ala			
190	340	345	350	
191	His Lys Met Gly Arg Trp Leu Cys Ala Leu Leu Gly Met Ile Ile Val			
192	355	360	365	
193	Gly Val Ser Ile Leu Cys Ile Pro Phe Ala Lys Asn Ile Tyr Gly Leu			
194	370	375	380	
195	Ile Ala Pro Asn Phe Gly Val Gly Phe Ala Ile Gly Met Val Asp Ser			
196	385	390	395	400
197	Ser Met Met Pro Ile Met Gly Tyr Leu Val Asp Leu Arg His Val Ser			
198	405	410	415	
199	Val Tyr Gly Ser Val Tyr Ala Ile Ala Asp Val Ala Phe Cys Met Gly			
200	420	425	430	
201	Tyr Ala Ile Gly Pro Ser Ala Gly Gly Ala Ile Ala Lys Ala Ile Gly			
202	435	440	445	
203	Phe Pro Trp Leu Met Thr Ile Ile Gly Ile Ile Asp Ile Leu Phe Ala			
204	450	455	460	
205	Pro Leu Cys Phe Phe Leu Arg Ser Pro Pro Ala Lys Glu Glu Lys Met			
206	465	470	475	480

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207 Ala Ile Leu Met Asp His Asn Cys Pro Ile Lys Thr Lys Met Tyr Thr
208 485 490 495
209 Gln Asn Asn Ile Gln Ser Tyr Pro Ile Gly Glu Asp Glu Glu Ser Glu
210 500 505 510
211 Ser Asp
214 <210> SEQ ID NO: 4
215 <211> LENGTH: 1545
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
221 synthetic construct
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224 atggccctga gcgagctggc gctggtccgc tggctgcagg agagccgcca ctcgcggaag 60
225 ctcatcctgt tcatcggtt cctggcgctg ctgctggaca acatgctgct cactgtcgtg 120
226 gtccccatca tcccaagttt tctgtacagc attaaggcatg agaagaatgc tacagaaaatc 180
227 cagacggcca gcccagtgc cactgcctcc atctcagaca gcttccagag catcttctcc 240
228 tattatgata actcgactat ggtcaccggg aatgtacca gagacctgac acttcatcag 300
229 accgccacac agcacatggt gaccaacgcg tccgctgttc cttccgactg tcccagtgaa 360
230 gacaaagacc tcctgaatga aaacgtgcaa gttggctgtg tgtttgctc gaaagccacc 420
231 gtccagctca tcaccaaccc tttcatagga ctactgacca acagaattgg ctatccaatt 480
232 cccatatttgc cgggattctg catcatgtt gtctcaacaa ttatgtttgc cttctccagc 540
233 agctatgcct tcctgctgat tgccaggctg ctgcaggccgca tcggctcgcc ctgctccctct 600
234 gtggctggga tgggcatgct tgccagtgtc tacacagatg atgaagagag aggcaacgtc 660
235 atggaaatcg ctttgggagg cctggccatg ggggtcttag tggggccccc cttcgggaggt 720
236 gtgctctatg agtttgtggg gaagacggct ccgttcctgg tgctggccgc cctggtaactc 780
237 ttggatggag ctattcagct ctttgcgtc cagccgtccc gggtgccagcc agagagtca 840
238 aaggggacac ccctaaccac gctgctgaag gacccgtaca tcctcattgc tgccaggctcc 900
239 atctgcttttgc caaacatggg catgcccattt ctggagccatg ccctgcccattt ctggatgatg 960
240 gagaccatgt gttcccggaa gttccggctt ggcgttgcct tcttgcgc tagtatctct 1020
241 tatctcatttgc gaaccaatat ttttggata cttgcacaca aaatggggag gtggctttgt 1080
242 gctttctgg gaatgataat ttttggatgtc agcattttat gtattccatt tgcaaaaaaaac 1140
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244 tcaatgatgc ctatcatggg ctacatcgta gacccgtggc acgtgtccgt ctatggagat 1260
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246 ggtgctatttgc caaaggcaat tggatccatgaa tggctcatgaa caatttattgg gataattgtat 1380
247 attcttttgc cccctctctg ctttttctt cgaagtccac ctgccaaaga agaaaaaaatg 1440
248 gctattctca tggatcacaat ctgccttattt aaaacaaaaaaa tgtacactca gaataatatc 1500
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252 <211> LENGTH: 525
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence:/note =
258 synthetic construct
260 <400> SEQUENCE: 5
261 Met Leu Arg Thr Ile Leu Asp Ala Pro Gln Arg Leu Leu Lys Glu Gly
262 1 5 10 15

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/528,684

DATE: 01/31/2006

TIME: 16:15:05

Input Set : A:\211010031U3.txt

Output Set: N:\CRF4\01312006\J528684.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date